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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/900,308	07/06/2001	Tadashi Takeda	500615.20142	5670
7:	590 06/15/2004		EXAMI	NER
Gerald H. Kie	el, Esq.		VUONG, I	BACH Q
Reed Smith LL 17th Floor	P		ART UNIT	PAPER NUMBER
375 Park Ave.			2653	. /
New York, NY	7 10152		DATE MAILED: 06/15/2004	6

Please find below and/or attached an Office communication concerning this application or proceeding.

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Technology Center 2600

	Application No.	Applicant(s)
	09/900,308	TAKEDA, TADASHI
Office Action Summary	Examiner	Art Unit
	Bach Q Vuong	2653
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONET	ely filed will be considered timely. the mailing date of this communication. (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on		
2a) This action is FINAL . 2b) ☑ This	action is non-final.	
3) Since this application is in condition for allowar closed in accordance with the practice under E		
Disposition of Claims		
4) ⊠ Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-7 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o		
Application Papers		
9) The specification is objected to by the Examine	r.	
10)☐ The drawing(s) filed on is/are: a)☐ acc	epted or b) \square objected to by the B	Examiner.
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	, , , , ,	
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

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Claim Objections

Claim 1 is objected to because of the following informalities:

In the claim 1, lines 8-9, the limitation "a phase difference of n wavelength to ... n is equal to 1, 2, 3 ..." is unclear and confusing. Applicant is suggested to amend the limitation above.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Kato et al. (US 6,185,168).

Kato et al., according to Figs. 1-11, shows a beam-guiding optical device in an optical head device comprising all features of the claimed invention as interpreted below:

Regarding claim 1, see Figs. 1-11 which show a beam-guiding optical device in an optical head device to bring beams if different wavelengths which are emitted by separate light sources together onto the same optical axis or to guide the beams onto a common photo receiving device, comprising: an incident plane and an exit plane (see plate 104 in Figs. 1-3 or 11(b)-11(e)) which are being back to back wherein one of the incident plane and the exit plane has a stair-like surface; wherein a step height (see plate 104 in Figs 11(d)-11(e) between neighboring treads in

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the stair-like surface is set to cause a phase different of n wavelengths to the beams passing through the neighboring treads, and n is equal to $1, 2, 3, \ldots$

Regarding claim 2, see Figs. 7(a)-7(b) and 11(b)-11(e) which show a beam-guiding optical device in an optical head device wherein the treads are curved.

Regarding claim 3, see Figs. 7(a)-7(b) which show a beam-guiding optical device in an optical head device wherein the treads are formed concentrically.

Regarding claim 4, see Figs. 1-3, 4 and 11(b)-11(e) which show an optical head device having a beam-guiding optical device, comprising: a first light source (see two light sources 200a and 200b) for emitting a first beam of light; a second source for emitting a second beam of light which differs in wavelength from the first beam of light; an objective lens (see objective lens 205) for converging the light and second beams of light onto a recording surface of an optical recording medium; and a common photo receiving device (see detector 208) for receiving the first and second beams of light which are reflected from the recording of the optical recording medium through the objective lens; wherein the beam-guiding optical device (see plate 206) is placed on an optical path between the objective lens and the common photo device to deflect one of the first and second beams of the light that have been reflected from the recording surface of the optical recording medium and to guide both of the first and second beams of light onto the common photo receiving device.

Regarding claim 5, see Fig. 4 which shows an optical head device having a beam-guiding optical device, wherein the first and second light sources are stored in a single package as a light source unit (see light source 200).

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to guide them to the objective lens.

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Regarding claim 6, see Figs. 1-5, 12 and 13 which show an optical head device having a beam-guiding optical device comprising: a first light source (see light source 200a) for emitting a first beam of light; a second light source (see light source 200b) for emitting a second beam of light which differs from in wavelength form the first beam; an objective lens (see objective lens 205) for converging the first and second beams of light onto a recording surface of an optical recording medium; and a common photo receiving device (see detector 208) for receiving the first and second beams of light that are reflected from the recording surface of the optical recording medium through the objective lens; wherein the beam-guiding optical device is placed on an optical path between the first and second light sources and the objective lens to bring the first and second beams of light together onto the same optical axis and to guide them to the objective lens; wherein the beam-guiding optical device (see plate 321 and 322 in Figs. 12 and 13 respectively) is placed on an optical path between the first and second light sources and the objective lens to bring the first and second beams of light together onto the same optical axis and

Regarding claim 7, see Figs. 1-5, 12 and 13 which show an optical head device having a beam-guiding optical device wherein the first and second light sources are stored in a single package as a light source unit (see light source 200 in Fig. 4).

Cited References

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited references relate to an optical head apparatus having a polarized polarizing phase plate placed guiding lights to an objective lens.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Bach Q Vuong whose telephone number is (703) 305-7355. The

examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William Korzuch can be reached on (703) 305-6137. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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June 2, 2004

THANG V. TOAN PRIMARY EXAMINED Page 5

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U.S. PATENT DOCUMENTS

Examiner Initial	Cite No. ¹	Patent Number	Issue Date	Patentee	Class/ Subclass	Filing Date
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Document Number	Publication Date	Country or Patent Office	Class/ Subclass	Translation Yes/No
JP 80-55363	2/27/96	Japan		Yes
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	Number	Number Date	Number Date Patent Office	Number Date Patent Office Subclass

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

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EXAMINER	DATE CONSIDERED
Bach Vuong	05/02/04

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Notice of References Cited Application/Control No. O9/900,308 Examiner Bach Q Vuong Applicant(s)/Patent Under Reexamination TAKEDA, TADASHI Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	Α	US-6,115,345	09-2000	Kato et al.	369/44.23
	В	US-6,320,699	11-2001	Maeda et al.	369/44.23
	С	US-6,449,237	09-2002	Yoo et al.	369/112.05
	D	US-6,201,780	03-2001	Katayama, Ryuichi	369/112.19
	E	US-5,666,344	09-1997	Imaino et al.	369/94
	F	US-			
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FOREIGN PATENT DOCUMENTS

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NON-PATENT DOCUMENTS

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"A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

